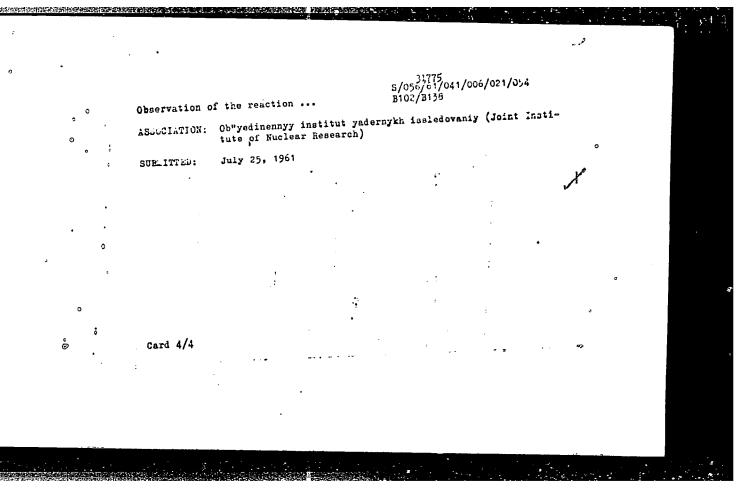
HILLIED. TOTAL BURNERS THE TOTAL STREET, THE PROPERTY OF THE P Surfferick State of 31775 S/056/61/041/006/021/054 B102/B139 24.6600 Zaymidoroga, O. A., Kulyukin, M. M., Pontekorvo, B., AUTHORS: Sulyayev, R. H., Filippov, A. I., Tsupko-Sitnikov, V. M., Sncherbakov, Yu. A. TITLE: PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 41; no. 6(12), 1961, 1804-1808 TEXT: The probability of slow  $\mu^-$ -meson capture by  $\mathrm{He}^3$  is known from highly accurate theoretical calculations. From probability measurements of the reaction  $\mu^{-} + \pi e^{\frac{3}{2}} + y$  the muon-nucleon interaction constant can be determined and the results compared with those of the weak interaction theory. From the tritium energy in this process the upper limit of the neutral particle mass emitted in muon capture can be estimated and the probability of the process  $\mu$  +p $\rightarrow$ n+v, not yet observed with certainty, can be determined. The first results of investigation of muon capture by Es are dealt with. A diffusion chamber filled with pure (99.999%) He3 at Card 1/4

31775 5/056/61/041/ .6/021/054 Observation of the reaction ... B102/B138 20 atm, was placed in a field of 6000 oe and exposed to a muon beam (momentum 217 Mev/c) from the synchrocyclotron of the CITAL. The methyl alcohol pressure in the sensitive layer of the chamber was less than 50 mm Hz, the tritium content of the gas used was 10-15. A copper filter was put in the chamber to slow down the mesons and eliminate the pions. The chapter was carefully shielded from thormal neutrons. To date, about 6000 thotographs have been taken of events where the muon path stopped at a lie nucleus. The reactions sought were identified by the energy of the tritium nucleus. From the pion admixture 1200 stars were observed. The admixture was determined to ~2,1, causing  $\pi^+ \text{He}^5 \to \text{H}^3 + \text{J}^*$  reactions. 14 events of the  $\mu^{-} \! + \! \mathrm{He}^{5} \! \to \! \mathrm{H}^{5} \! + \! \nu^{-}$  reaction were identified, the mean tritium range was 2.37±0.02 mg/cm<sup>2</sup>. The upper limit of the neutral particle emitted in much capture was estimated; With 99% probability its mass is less than 6 MeV. The charged particle masses were: m<sub>He</sub> = 2606.22 MeV, m<sub>H</sub> = 1606.75 MeV.  $m_{\rm H} = 105.65$  Mev. The probability of reaction (1) was  $(1.30\pm0.40)\cdot10^{5}$  sec<sup>-1</sup>. The value calculated by Wolfenstein on the basis of the theory of universal Card 2/4



FALONKIN, I.V.; FILIPIOV, A.I.; NULYUKHI, M.M.; PONTECOHVO, B.;
SHOHRIBAKOV, Yu.A.; SHIRNOVA, L.M.; TSUFKO-STINIKOV, V.M.;
ZAYMIDOROCA, O.A.; SHIRNOVA, L.A. [translator]; SARANTSEVA,
V.R., tekhn. red.

Measurement of the  $\mathcal{U} + He^3 \rightarrow H^3 + V$  reaction rate. Dubna,
Ob"edinenryi in-t iadernykh issledovanii, 1962. 7 p.

(No subject heading)

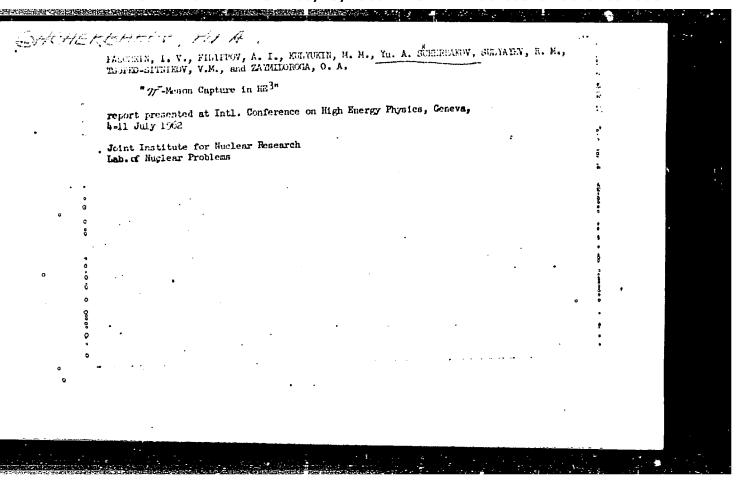
PALOMETH, I.V., FILIPPW, A.I., MENGKIN, M.M., PORT MENO, P.M., MERCANNA, Yu.A., GULVAREY, R.M., REMPROSITENCY, V.M., CARM FORM, C.M.

Thurn-Ruseleon Interaction Constants and Muon Capture in MR<sup>20</sup>

report presented at the Intl. Conference on High Energy Physics, Geneva,
4-11 July 10/2

Joint Institute for Nuclear Possearch
Laboratory of Nuclear Problems

	FILTIPEV. A.I., KULYUKIN, M.M., FONTEKORVO, B.M., SHCHERPARDV, Yu.A., BULYAYIV, B.M., ZAYHIDOROGA. O.G.	· •	
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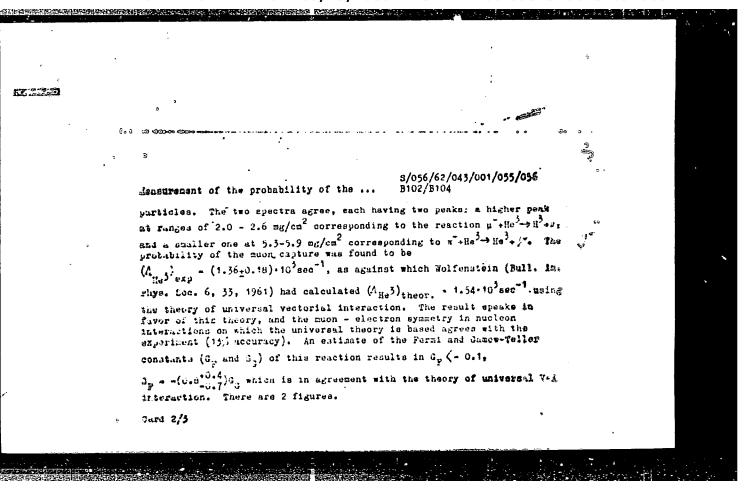
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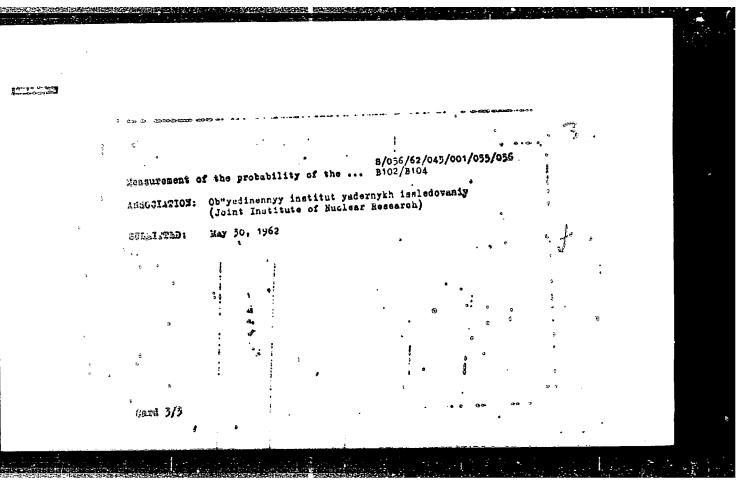
MTHEORY: Zaysidoroga, O. A., Kulyukin, M. M., Pontakorvo, B., Sulyayav, R. M., Palonkin, I. V., Filippov, A. I., Toupko-Sitnikov, V. M., Shoherbakov, (u. A.

TALE: Augurement of the probability of the µ+Hs → H+ν reaction

admidDical: Zhurmal eksperimental moy i teoreticheskoy fiziki, v. 43, no. 1(7), 1962, 355-58

TRAT: The µ+Hs → H+ν - reaction probability was measured in order to study the symmetry of the suon and electron interactions with nucleons. The retion used is that described in ZhET, 44, 1805, 1964. A diffusion canter filled with He gas (20 ata) in a field of 6 kee was exposed to a saut tour (217 May/a) from the synchrocyclotron of the Laboratoriya ya-raysha problem offat (Laboratory of Nuclear Problems of the Offat), a co, or filter being used to moderate the muons. Some 10 photographs bure taken. The total number of captures and p-e decay event and deads bined from the spectrum of the visible secondary tracks of tritius stars and also from the spectrum of the ranges of the stopped secondary Pard 1/3





B/056/63/044/001/067/067
B102/21866

AUTHORS: Eaymidoroga, O. A., Kulyukin, M. M., Pontekorvo, B.,
Sulyeyev, R. M., Falonkin, I. V., Filippov) A. I.,
Faupko-Sitnikov, V. M., Shoherbakov, Yu. A.

TITLE: Heasurement of the \( \mu^+ \mathbb{H}^2 + \mu^+ \mu^

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TITLE:	The Panofsky ratio for He and the root-mean-square radius : for the He -H transition	: : • a a	
PERIODICAL:	Zhurnal eksperimental'noy i teoretiqheakoy fiziki, v. 44, no. 4, 1963, 1180 - 1183	G 8	
effected in of conservat.	apture of $\pi^{-}$ by $\mathrm{He}^{3}$ was theoretically investigated, and was the following processes which are allowed from the standpoint ion laws:  I. $\pi^{-} + \mathrm{He}^{2} \rightarrow \rho + n + n$ (55.5%)  II. $\pi^{-} + \mathrm{He}^{2} \rightarrow n + d$ (27.8%)  III. $\pi^{-} + \mathrm{He}^{2} \rightarrow + \mathrm{H}^{2} + \pi^{0}$ (9.4%)  IV. $\pi^{-} + \mathrm{He}^{2} \rightarrow + \mathrm{H}^{3} + \tau$ (4.8%)  V. $\pi^{-} + \mathrm{He}^{2} \rightarrow d + n + \tau$ (2.0%)  VI. $\pi^{-} + \mathrm{He}^{2} \rightarrow \rho + n + n + \tau$ (0.5%)	1	•
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The Panofsky ratio for ...

Now the capture of w mesons stopped in He could be observed for the first how the capture of a mesons scopped in he could be observed for the lifetime in the reactions III and IV. B. V. Struminskiy has shown (Preprint Olyal, 2-1012, Dubna, 1962), that the probability ratio (Panofsky ratio P) of these reactions is related with the r.m.s. radius r of the Hell-Hi transie tion in radiative processes by

 $P = \frac{P_{\rm H}}{1 - 1/k^2 r^2 + 1/k^2 r^2} \frac{\omega + M}{\omega_{\rm H} + m} \frac{\omega_{\rm H}}{\omega} \left[ \frac{E}{E_{\rm H}} \frac{M}{m} \left( \frac{\mu + m}{\mu + M} \right)^{3/2} \right],$ 

k is the wave number of the photon in IV, w the photon energy in IV, m the K is the wave number of the photon in 14, whith photon energy in IV, m the neutron mass, whithe modern the tritium mass, E the energy released is ... III; the quantities with the subscript H refer to x +p processes. The experiments were made with a He -filled diffusion chamber (20 atm) placed in a magnetic field of 6 koe. Among the 2372 photographs of pion stops in He a magnetic rield of 6 kos. Among the 2372 photographs of pion stops in He the processes III and iV were singled out according to the ranges of the particles involved. The relative probabilities of III and IV were particles involved. The relative probabilities of III and IV were (13.5±0.9)% and W = (6.2±0.7)%. The Panofsky ratio was obtained as:  $7 = (13.5\pm0.9)\%$  and  $4 = (0.2\pm0.1)\%$ . The familiary laws  $40.30 \cdot 10^{-13} \text{cm}$ ,  $2.16\pm0.26$ , and from this r could be calculated:  $r = (1.24\pm0.46) \cdot 10^{-13} \text{cm}$ , which is in closs agreement with the value calculated by C. Werntz (Kucl. Card 2/3

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Phys. 16, 59, 1960). The yields of II higher than those predicted by Messiah are 2 figures.	(TUJE . A.	ev. 0 <sub>1</sub> ,	٠,,,	.,,,-,		• •		•	
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EWP(q)/EWT(m)/BDS AFFTC/ASD JD/JC

ACCESSION NR: AP3003110

S/0056/63/044/006/1852/1858

AUTHOR: Zaymidoroga, O. A.; Kulyukin, M. M.; Sulyeyev, R. M.; Filippov, A. I.; Tsupko-Sitnikov, V. M.; Shcherbakov, Yu. A.

TITLE: Formation of helium mesic atoms in a hydrogen-helium gas mixture

SOURCE: Zhurnal eksper. i teor. fiziki, y. 44, no. 6, 1963, 1852-1858

TOPIC TAGS: helium mesic atom formation, helium, hydrogen, direct attachment, muon transfer

ABSTRACT: The formation of helium mesic atoms in a mixture of helium and hydrogen was studied in a diffusion cloud chamber at 19 atmospheres pressure. The experiment was performed to clarify the roles of the two possible mechanisms of helium mesic atom formation in a H-He mixture, direct attachment or via muon transfer, and as a check on an experimental procedure which permits the use of relatively small amounts of helium. The diffusion chamber was exposed to a beam of negative mesons with initial momentum 170 MeV/c from the synchrocyclotron of CIYAI. Both He sup 3 and He sup 4 were used, with nuclear concentrations 14.3 and 4.9 %, respectively. The probability of the capture of muons by helium from a hydrogen mesic atom in the ground state was found to be at least three orders of magnitude smaller than the probability of capture by carbon or oxygen nuclei, Card 1/2

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ACCESSION NR: AP3003110

and cannot appreciably exceed 1 million per second, in agreement with theoretical estimates made by S. S. Gershteyn (ZhETF v. 43, 706, 1962). Agreement with the Fermi-Teller "Z-law" was indicated for direct attachment of mesons to nuclei in the gas mixture. "The authors are deeply indebted to S. S. Gershteyn, P. F. Yermolov, and B. Pontecorvo for numerous valuable discussions, and to A. I. Tokarskaya and Ye. A. Shvaneva for assistance with the measurements." Orig. art. has: 2 figures, 10 formulas, and 4 tables.

ASSOCIATION: Ob"yedinenny\*y institut yaderny\*kh issledovaniy (Joint Institute of

Nucleur Research)

SUBMITTED: 23Jan63

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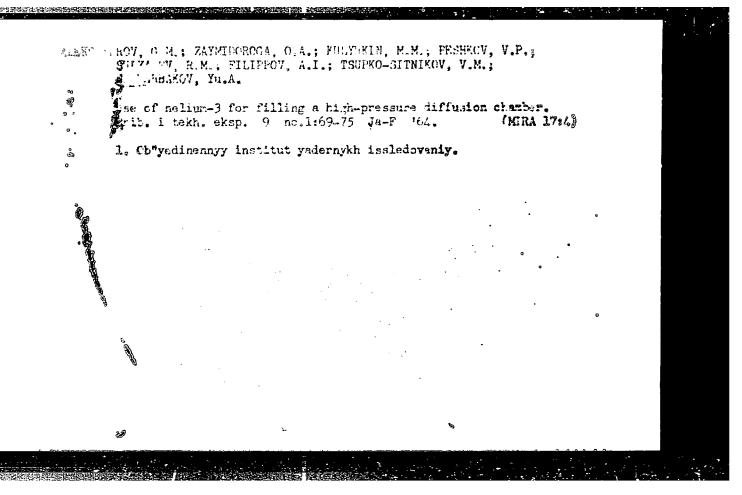
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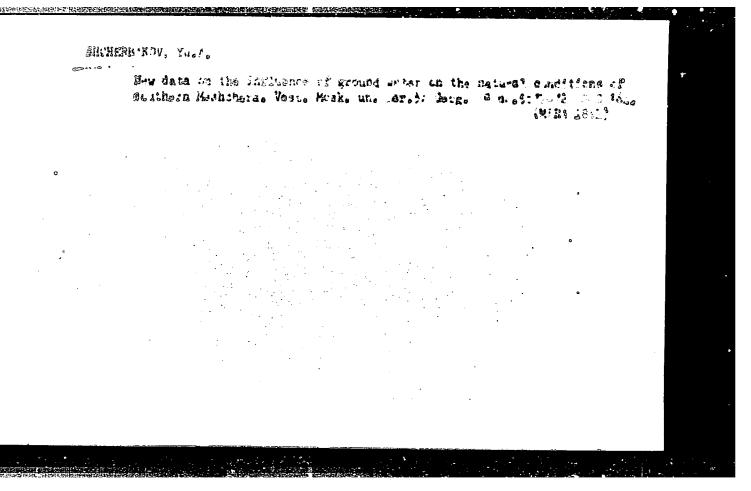
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FAIRMAIR HOGA, O.A.; KULYUKIN, M.M. PONTEEDIVO, B.; SULYAYKV, R.W.; FAIRMKIN, I.V.; FILIPIOV, A.I.; TSUPKO-SITNIKOV, V.M.; SHCHERUAKOV, Yu.A.

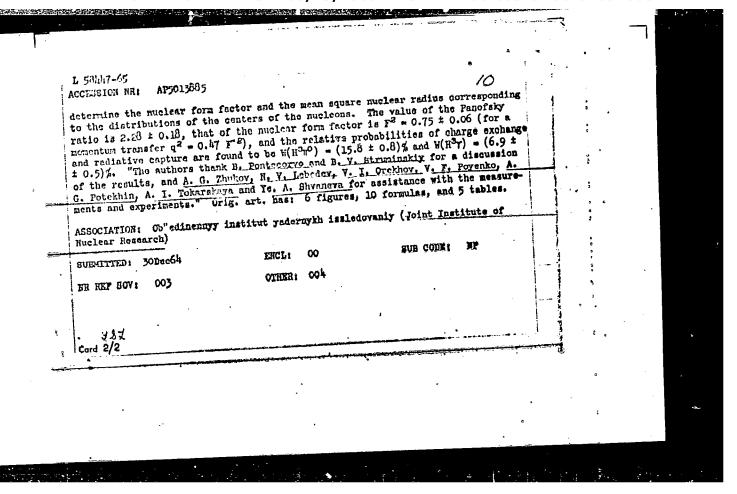
Measurement of the total probability of muon capture in He<sup>3</sup>. Zhur. eksp. i teor. fiz. 45 no.6:1803-1807 D '63. (MIRA 17:2)

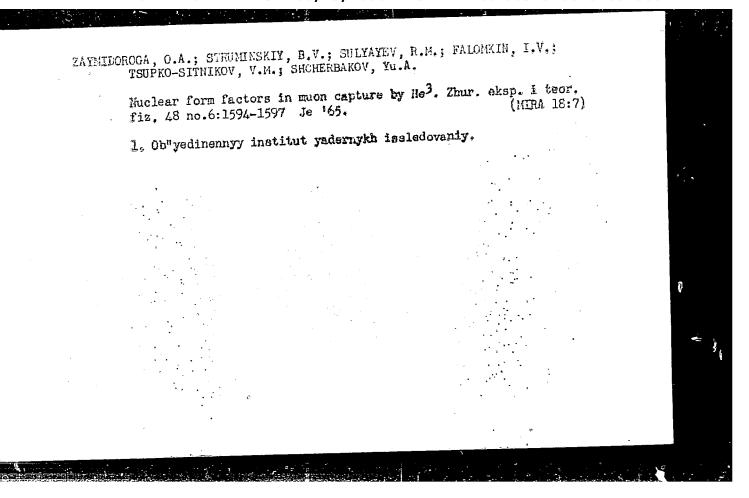
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Filinnov, A. I.; Tsupho-Bitni	Folyukin, H. H.; Bulyayer, R. H.;	, **				
TITLE: Study of pion capture	by Re3. I. Charge exchange and	radiative captures	.g :	•		
80URCE: Zhurnal eksporimental 1267-1278	l'noy i teoreticheskoy fiziki, v.	48, no. 5, 1965;				
TOPIC TAGS: pion capture, her ratio, form factor, relative p	lium, charge exchange, radiative of probability	capture, Panofaky		;		
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1180, 1963). A high-pressure used to measure the ratio of capture of pions by He <sup>3</sup> (the classwhere (PTE No. 1, 69, 1964), are described in detail. The for Me <sup>3</sup> together with the second	tion of an earlier paper by the and diffusion chamber operating in a the probabilities of charge exchair Panofsky ratio). The diffusion of the diffusion of the caperimental apparatus as a experimental values obtained for alculations of B. V. Struminskiy (not, on High Energy Physics at CERT	magnetic field was nge and radiative hamber was described nd the measurements the Panofsky ratio Preprint CIYAI,		2	·	-
1180, 1963). A high-pressure used to measure the ratio of capture of pions by He <sup>3</sup> (the elsewhere (PTE No. 1, 69, 1964) are described in detail. The for He <sup>3</sup> , together with the capture of the capture	diffusion chamber operating in a the probabilities of charge exchain Panofsky ratio). The diffusion of the experimental apparatus as experimental values obtained for the lations of B. V. Struminskiy (	magnetic field was nge and radiative hamber was described nd the measurements the Panofsky ratio Preprint CIYAI,		•		-
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AUTHORS: Zaymidorova, O.A.; Struminskiy, B.V.; Sulyayev, R.M.; Falomkin, I.V.; Tsupko-Sitnikov, V.M.; Shcherbakov, Yu.A., 44, 54, 54, 54, 54, 54, 54, 54, 54, 54		
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weak interaction theory with is found to be 1515 ± 55 se 1490 ± 40 sec 1 obtained in (ZhETF v. 44, 389, 1963).  are calculated to be g <sub>A</sub> /g <sub>V</sub> parison of the calculated p the authors estimate the ps	calculated on the basis of the the values of the form factor $c^{-1}$ . This agrees well with the earlier experiments by the author ratios of the pseudoscalar $e^{\mu} = 1.160$ and $e^{\mu}/e^{\mu} = 7.160$ and $e^{\mu}/e^{\mu} = 7.160$ and $e^{\mu}/e^{\mu} = 7.160$ robability with the experiment eudoscalar constant to be $e^{\mu}/e^{\mu}$ len'kiy. S. S. Gershteyn, and the results. Orig. art. has:	tal results  (8 ± 3)gA  B. Ponte-	
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SHCHERBAKOV, Yu. A.

Enzymatic composition of the intestinal chyme in connection with secretions from the small intestine and pancreas in conditions of high external temperature and insolation. Med. zhur. Uzb. no.6: (MIRA 15:7)

1. Iz kafedry normal'noy fiziologii (zav. - prof. G. F. Korot'ko) Andizhanskogo gosudarstvennogo meditsinskogo instituta.

(ENZYMES) (INTESTINES) (PANCREAS—SECRETIONS) (TEMPERATURE—PHYSTOLOGICAL EFFECT)

SHCHERBAKOV, Yu.A.

Secretion of pancreatic enzymes in response to different food stimuli under conditions of high environmental temperature. Vop. pit. 21 no.3:61-66 My-Je '62. (MIRA 15:10)

l. Iz kafedry normal'noy fiziologii (zav. - prof. G.G.Korot'ko) Andizhanskogo gosudarstvennogo meditsinskogo instituta. (PANCREAS—SECRETIONS) (HEAT—PHYSIOLOGICAL EFFECT)

SHCHERBAKOV, Yu.A.

Method of studying the pancreatic secretion. Med.zhur.Uzb. no.3:40-42 Mr '62. (MIRA 15:12)

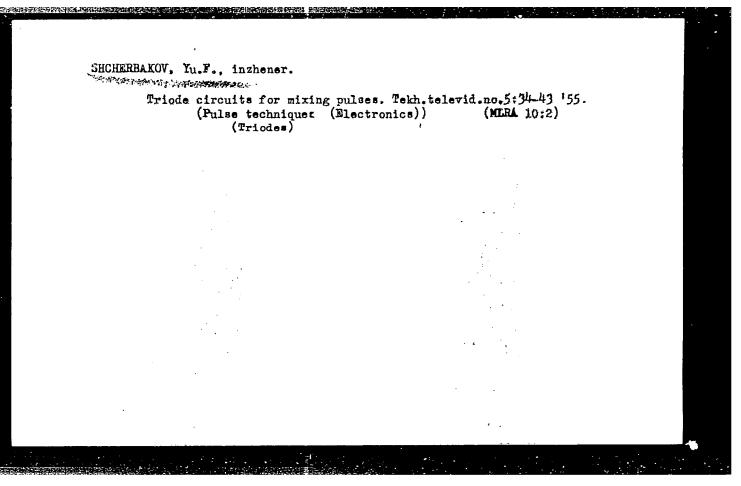
1. Iz kafedry fiziologii (zav. - prof. G.F.Korot'ko) Andizhanskogo gosudarstvennogo meditsinskogo instituta. (PANCREAS--SECRETIONS)

NIKOLAYEV, A.V.; NIKOL'SKAYA, R.M.; SHCHERBAKOV, Yu.D.

Dioxane method of determining moisture in gypsum-bearing and salinized soils. Pochvovedenie no.3:105-108 Mr 164.

(NIRA 17:4)

1. Nauchno-issledovatel'skiy institut pochvovedeniya, Dushanbe.



Device for machining central pivots. Mekh.stroi. 16 no.2:27-28 F '59. (MIRA 12:2)
(Excavating rachinery-Maintenance and repair) (Machine tools)

SHCHIRBARCY, Yr. 6.: Laster Cholog-Mineraley Sel (diss) -- "Conditions for gold content in the southwestern portion of the Enzhetsk Ala-Tau". Stalinsk-Tomsk, 1950. 21 pp (founk Order of Labor Red Banner Polytoch Inst im S. H. Riroy), 100 copies (EI, No 13, 1959, 102)

Gold placers in the southwestern slope of the Kusnetsk Ala-Tau.

Izv. TPI 90:100-111 '58. (MIRA 12:2)

1. Predstavleno professorom doktorom F.H. Shakhovym.

(Kuznetsk Ala-Tau-Gold ores)

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EHCHERBAKOV, Yu.G.

Characteristics of gold placer deposits in Transylvania. Geol. i geofiz. no.6:134-138 '60. (MIRA 13:9)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR. (Transylvania—Gold ores)

SHCHERBAKOV, Yu.G.

Characteristics of the formation of gold cres in the northeastern Altai and adjacent areas of the Kuznetsk Ala-Tau. Geol.i geofiz. no.12:3-12 '60. (MIRA 14:5)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR, Mobogibirsk.

(Altai Mountain region-Gold ores)

SHCHERBAKOV, Yu.G.

Some characteristics of gold mineralization in the Sinyukha deposit. Geol. i geofiz. no.2:16-30 '61. (MIRA 14:5)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

(Altai Mountains--Gold ores)

SHCHERBAKOV, Yu.G.

Interdepartmental conference on the metallogeny of gold in Western Siboria and Krasnoyarsk Territory. Geol. i geofiz. no.2:130-131 (MIRA 14:5)

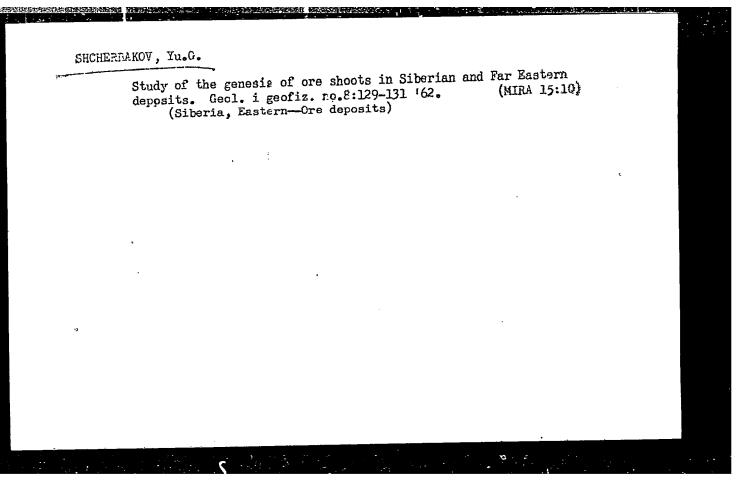
(Siberia—Gold ores)

SHCHERBAKOV, Yu.G. Recent data on the geology of Gornaya Shoriya. Geol. i geofiz. (MIRA 14:7)

no.6:61-73 '61.

1. Institut gelogii i geofiziki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

(Gornaya Shoriya--Geology)



SHCHERBAKOV, Yu.G.

Paragenetic associations and ionic densities of elements in ore deposits. Geokhimia no.7:702-707 Jl '63. (MIRA 16:9)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

(Paragenesis) (Ions—Density) (Ore deposits)

DMITRIYEV, A.N.; ZYKOV, S.I.; KLYAROVSKIY, V.M.; SHCHERBAKOV, Yu.G.

New data on Mesozoic igneous activity and mineralization in the Gornyy Altai and the Kuznetsk Alatau. Dokl. AN SSSR 153 no.4:903-905 D '63. (MIRA 17:1)

l. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR. Predstavleno akademikom V.S. Sobolevym.

SHOHED HAROV, Yu.G.; PEREZHOGIN, G.A.

Geochemistry of gold. Geokhimiia no.6:518-528 Je \*64. (MIRA 18:7)

1. Institut geologii i goofiziki Sibirskogo otdeleniya AN SSSR, Novosibirsk i Institut geokhimil i analiticheskoy khimii imeni Vernadskogo AN SSSR, Moskva.

STORMARKON, Ye. G.

Correlative dependence of one complexes associated with granitoids on the composition of the formations analoging them. Bokl. AN SECR 156 no. 2:359-362 My 164. (MIRA 17:7)

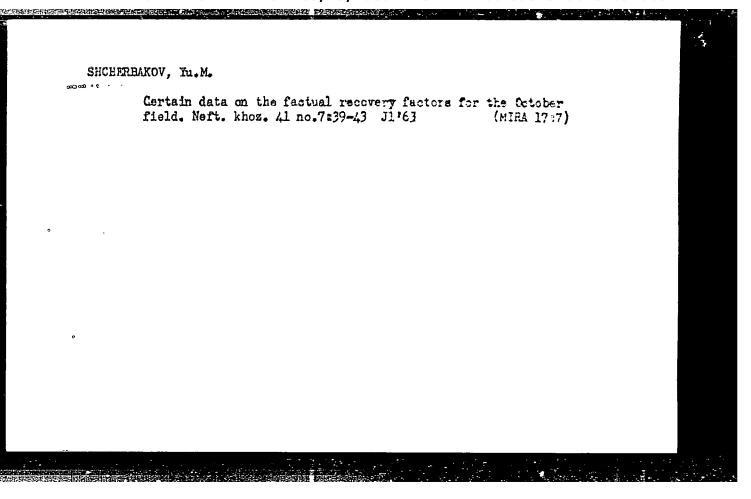
1. Institut geologii i geofiziki Sioirskogo obieleniya AN STR. Predstavleno akademikom V.S. Sobolevym.

# SHCHERBAKOV, Yu.C.

feriodicity of the Clarke ratio and geochemical development of the earth's crust. Dokl. AN SSSR 161 no.22451-454 Mr 165.

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR. Submitted June 22, 1964.

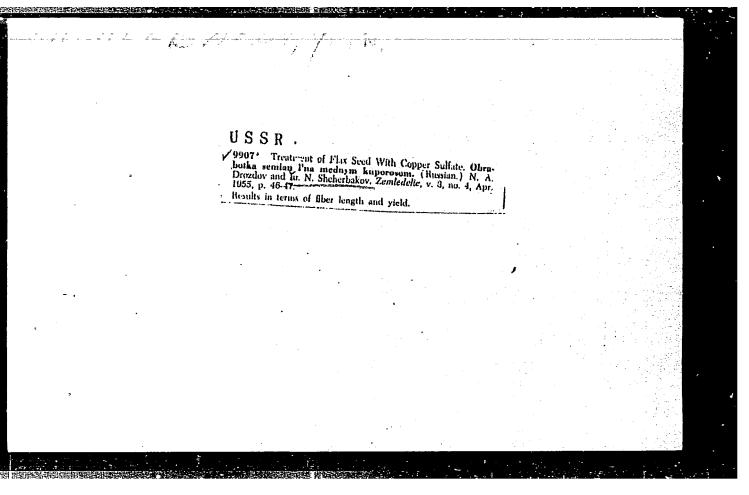
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SHCHERBAKOV, Yu.M.; BONDARENKO, L.A.

Hydrogounding wells. Nefteprom.delo no.11:35-39 '63. (MIRA 17:3)

1. Neftepromyslovoye upravleniye "Cktyabr'neft".



D'YACHENKO, M., inzh.; SHCHERBAKOVA, A., inzh.

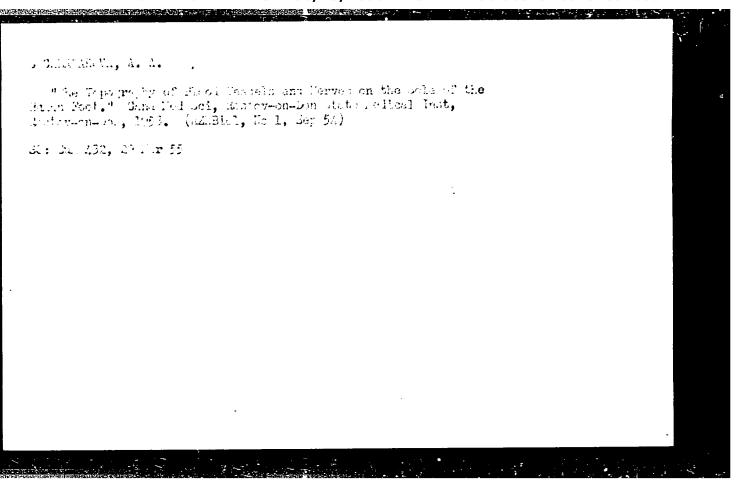
Automatic tire pumping. Avt.transp. 40 no.5:27-28 My '62.

(MIRA 15:5)

1. Donetskiy avtotrest.

(Tires, Rubber)

(Air pumps)



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SHCHERRAKOVA, A.A.

Some characteristics of the distribution of arteries and nerves in the human foot. Arkh. anat. gist. i embr. 32 no.3:89-92 JI-S

155 (MLRA 9:5)

1.Iz kafedry normal'noy anatomii Rostovskogo meditsinskogo instituta (zav.-prof. P.A. Sokolov)

(FOOT, blood supply, arteries)

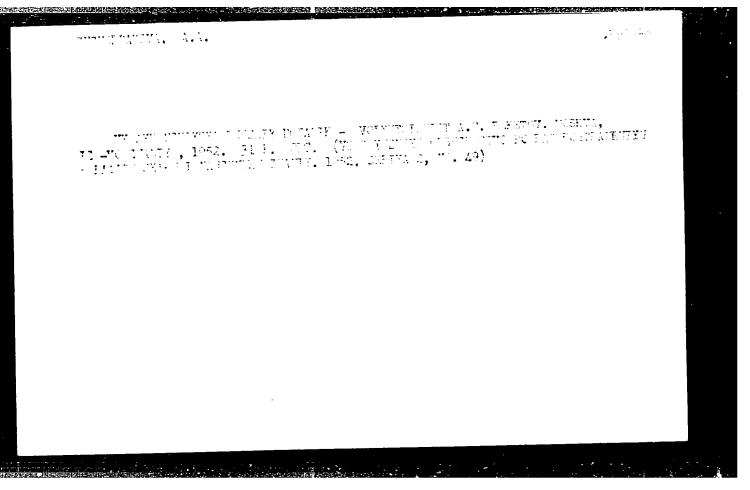
(FOOT, innervation)
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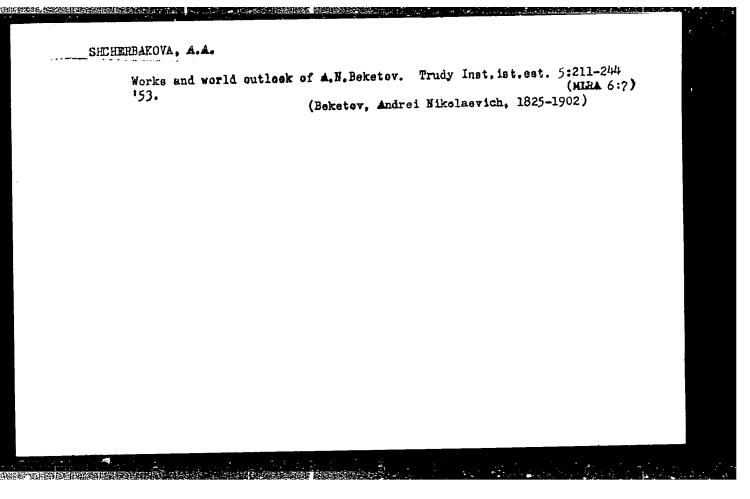
SHCHERPINCVA, A. A.

Botany

A. N. Beketov, the outstanding Russian botanist-evolutionist, Izv. AN SSR. Ser. biol., No. 6, 1951

9. Monthly List of Russian Accessions, Library of Congress, Karch 1958, Uncl.





SHCHERBAKOVA, A.A.

Mikhail Maksimovich as a naturalist and botanist. Izv. AN SSSR.
Ser.biol. no.4:76-96 Jl-Ag '54. (MLRA 7:10)

1. Institut istoriiyestestvosnaniya i tekhniki Akademii nauk SSSR.

(Maksimovich, Mikhail Aleksandrovich, 1804-1873)

\* Wirth. . . Attended to be particulated

SHCHERBAKOVA, A.A.

Oldest Bulgarian botanist, Academician Stefan Petkov, Izv. AN SSSR. Ser. biol. no.6:104-116 N-D 154. (MIRA 8:3)

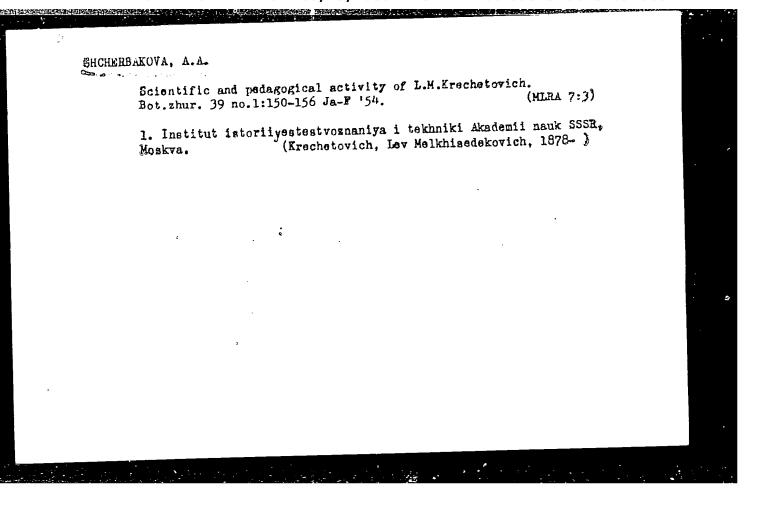
1. Institut istorii yestestvosnaniya i tekhniki Akademii nauk SSSR. (PRTKOV, STEFAN, 1866-1951)

 $-\epsilon_{ij} \epsilon_{ij} = 1$  . The second of  $\epsilon_{ij} = 1$  . The second of  $\epsilon_{ij} = 1$  . The second of  $\epsilon_{ij} = 1$  .

Discovery of correlations of above ground organs of higher plants.

Biul.Glav.bot.sada no.19:140-144 54. (MIRA 8:2)

1. Institut istorii yestestvosnaniya 1 tekhniki Akademii nauk SSSR.
(Botany-Anatomy)



SHCHERBAKOVA, A. A.

USSR/Scientists

dotany

Card

1/1

Authors

Cheherockova, A. A.

Title

At the sources of the cell theory (Article commemorating the 150th anniversary of the birth of M. J. Schleiden)

Periodical

Prirode, 43/7, 45 - 52, July 1954

Abstract

In recounting the outstanding features of the scientific work of Schleiden, a botanist born in Hamburg, the contributions to biological knowledge by other scientists are mentioned. The article is biographical and historical rather than scientific.

Institution : ....

Submitted

CIA-RDP86-00513R001548910002-1" APPROVED FOR RELEASE: 08/23/2000

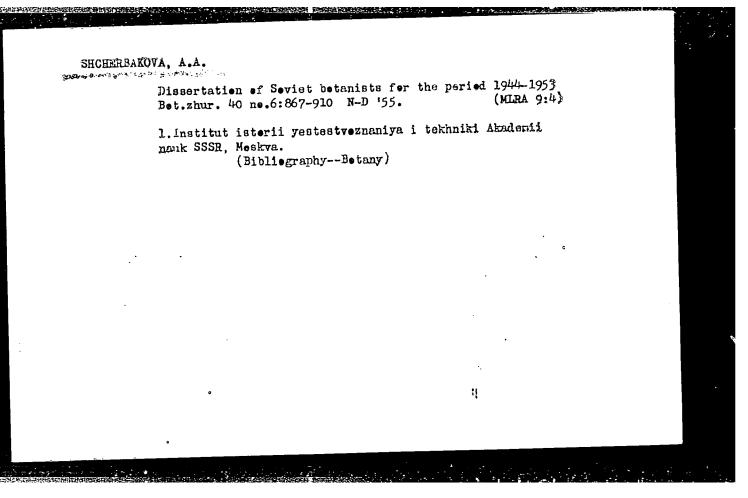
V.I. Beliaev, a classic figure in botany. Isv. AF SSSR. Ser. biol. no.6:109-126 N-D 155

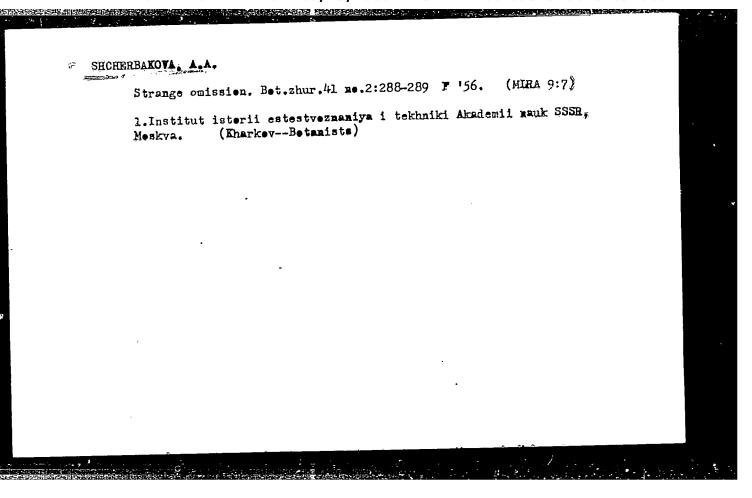
2. Institut istorii estestvoznaniya i tekhniki Akademii nauk SSSRe (BELIAKY, VLADINIR IVANOVICH, 1855-1911)

SHCHERBAXOVA, A.A.

Dissertations of Soviet botanists for the period of 1944-1953.
Bot.zhur. 40 no.2:256-280 Mar-Apr '55. (MIRA 8:7)

1. Institut istorii yestestvoznaniya i tekhniki Akademii nauk SSSR, Moscow. (Bibliography-Botany)





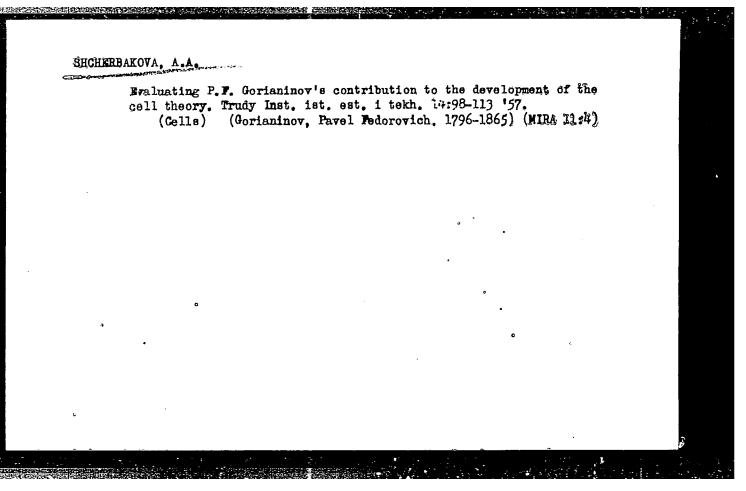
SMCHERBAKOVA, A.A.

Dissertations of Soviet botanists defended in 1954-1554. Bot.zhur.
41 no.10:1532-1554 0 '56. (MLRA 10:1)

1. Institut istorii estestvoznaniya i tekhniki Akademii nauk SSSE,

Noskva.

(Bibliography--Botany)



SHCHERRAKOVA, A.A.

Two theses that should have been rejected. Bot.zhur.42 no.1:110-113
Ja '57.

1. Institut istorii yestestvoznaniya i tekhniki Akademii nauk SSSE,
Moskva.

(Biology--Philosophy) (Microbiology) (Cells)

SHCHERBAKOVA, A.A.

Errors in the published biographies of N.N. Kaufman and K.A. Timiriazev. Bot. zhur. 42 no.5:813-814 My '57. (MIRA 10:6)

1. Institut istorii yestestvoznaniya i tekhniki Akademii nauk SSSR, Moskva.

(Kaufman, Nikolai Nikolaevich, 1834-1970) (Timiriazev, Kliment Arkad'evich, 1843-1920)

SHCHERBAKOVA, A.A.; KUDRYASHOV, L.V., otvetstvennyy red.; AMTONYUK, L.D., red.izd-va; HOVICHKOVA, N.D., tekhn.red.

[Andrei Nikolaevich Beketov, on outstanding Russian botanist and public figure] Andrei Mikolaevich Beketov - vydsiushchiisia russkii hotanik i obshchestvennyi delatel. Moskva, Izd-vo Akad.nauk SSSR, 1958.254 p.

(MIRA 11:?)

(Beketov, Andrei Nikolaevich, 1825-1902)

SHCHERBAKOVA, A.A., kand. biol. nauk, otvetstvennyy red.; TSITSIN, N.V., akademik; red.; SUKACHEV, V.N., akademik, red.; BAZILEVSKAYA, N.A., prof., red.; MEYYER, K.I., prof., red.; BLYAKHER, L.Ya., prof., red.; ANTONYUK, L.D., red. izd-va; MARKOVICH, S.G., tekhn., red.

[Carl Linnaeus; a collection of articles] Karl Linnei; sbornik statei. Moskva, 1958. 257 p. (MIRA 11:9)

1. Akademiya nauk SSSR. Institut istorii yestestvoznaniya i takhniki.

(Linne, Carl von, 1707-1778)

Sandakaka 1. 1. 1. 1.

: HORTBE

Lebedev, D.V. (Leningrad)

SOV-26-58-9-35/42

Section 1. The section of the sectio

TITE:

A Book on Botanists of Our Native Country (Eniga c botsni-

kakh nashey rodiny)

PERIODICAL:

Priroda, 1958, Nr 9, pp 119-120 (USSR)

ABSTRACT:

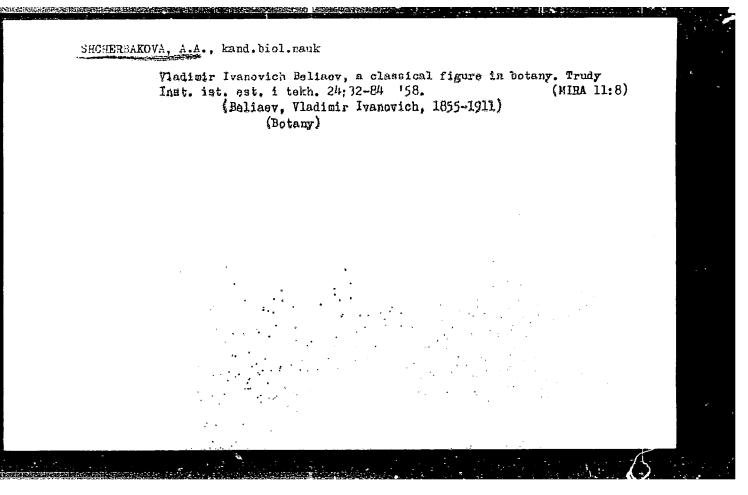
Review of the book "Vydayushchiyesya Otechestvennyye Botaniki" (Eminent Botanists of the Fatherland), Uchpedgiz Publishing House 1957, 443 pp, by Bazilyevskaya, N.A., Meyar, K.I.,

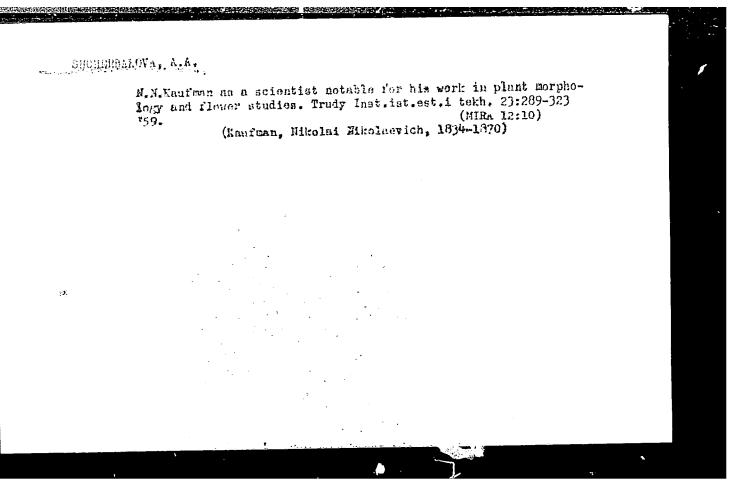
Stankov, S.S. and Shcherbakova, A.A.

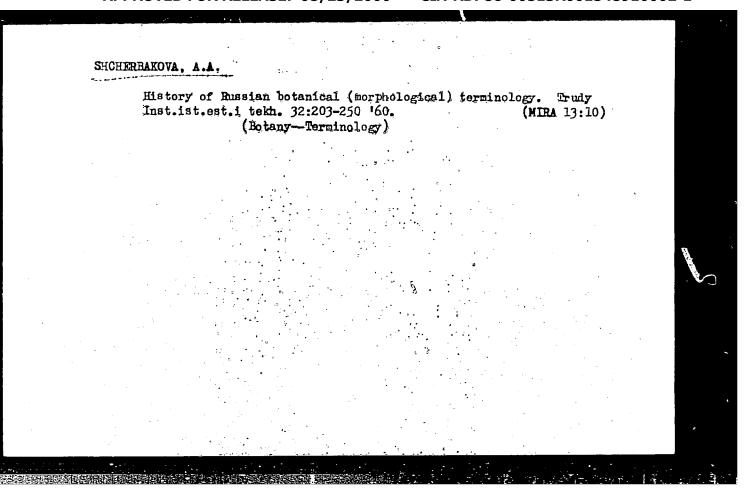
1. Potenists -USSR

Card 1/1

SOV-26-58-11-11/49 Shcharbakova, A.A., Candidate of Piological Sciences AUTHOR: A Great English Botanist (Velikiy angliyskiy botanik). The TITLE: 100th Anniversary of the Death of Robert Brown (K stoletiyu so dnya smerti Roberta Brouna). Priroda, 1958, Nr 11, pp 64 - 67 (USSR) PERIODICAL: The article sketches the life and scientific achievements ABSTRACTE of Robert Brown. There is 1 photograph. ASSOCIATION: Institut istorii yestestvoznaniya i tekhniki AN SSSR/ Moskva (The Institute of the History of matural accence and Engineering of the AS USSR /Moscow) 1. Botanists--Gt Brit. 3. Brown, R. Card 1/1







SHCHERBAKOYA, A.A.

Sources of Michurin's theories; A.T. Bolotor as I.V. Michurin's predecessor. Bot. zhur. 45 no.7:1082-1085 J1 '60. (MIRA 13:7)

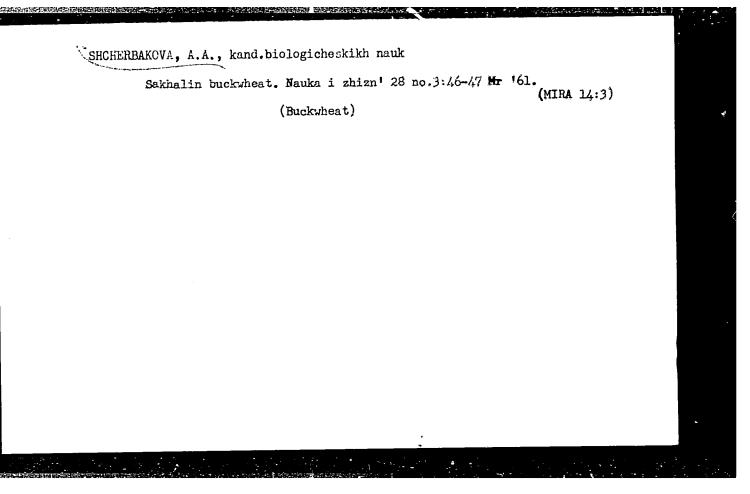
1. Institut istorii yestestvoznaniya i tekhniki Akademii Hauk SSSR. Moskva.

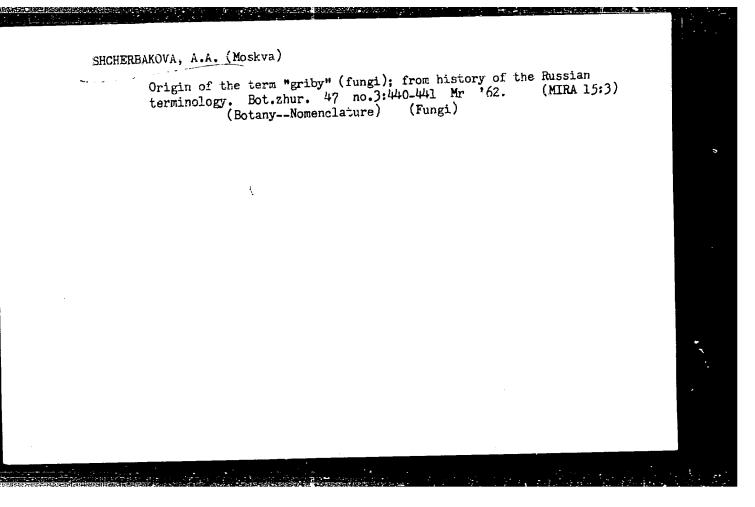
(Bolotov, Andrei Timofeevich, 1735-1883) (Fruit culture)

SECHERBAKOVA, Antonina Alekseyevna; PROZINA, M.N., otv. red.[deceased]; VOVCHENKO, M.L., red. izd-va; VOLKOVA, V.Ye., tekhn. red.

[History of plant cytology in Russia during the 19th century]
Istoriia tsitologii rastenii v Rossii v XIX veke. Moskva, Izdvo Akad. dauk SSSR, 1961. 186 p. (MIRA 14:11)
(Plant cells and tissues)

Development of botanical knowledge in Russia before the 18th century. Trudy Inst. ist. est. i tekh. 76:136-175 'fl. (MIRA 14/7) (Botany)





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"Meranding and Hamatigh Derivatives of distinguishing and distance in add. J. Topshiyev, N. J. Hamatin, and h. J. Shohorbakova

941 97, 61 9, **% 9**, pp 39-510

Hexamithyl and hundstyl dudies of disilamethane and disilamethane were propedly treating here theredisflame them and hereablorous illustinate with Grignard reagents or Li-or this complet. The following were proped: hexamothyldisilamethane, hexamithyldisilamethane, and hexaethyldisilamethane.

Di 21:749

(CA 47 no. 22:17223 43)

CONTRACT, 1. 1.: "The diffusion of hydrogen through iron and binary ferrochrone and ferronickel allows at high pressures and terperatures". Leningrad, 1954. Seningrad little Order of Lenin E imeni A. A. Zidonov. (Chrisertation for the Despree of candidate of Science of Chemical sciences)

30: Enightery Latoris', No. 41, 3 Cet 55

#### CIA-RDP86-00513R001548910002-1 "APPROVED FOR RELEASE: 08/23/2000

SHICHER BAKEVIN, AIN

Category: USSR/Solid State Physics - Diffusion. Sintering

**Z-**6

Abs Jour : Ref Zhur - Fizika, No 2, 1957 No 3891

: Shicherbakova, A.A. Author

: Diffusion of Hydrogen Through Iron and Binary Iron-Chrome and Iron-Nickel

Alloys at High Pressures and Temperatures.

Orig Pub: Zh. prikl. khimii, 1956, 29, No 6, 879-884

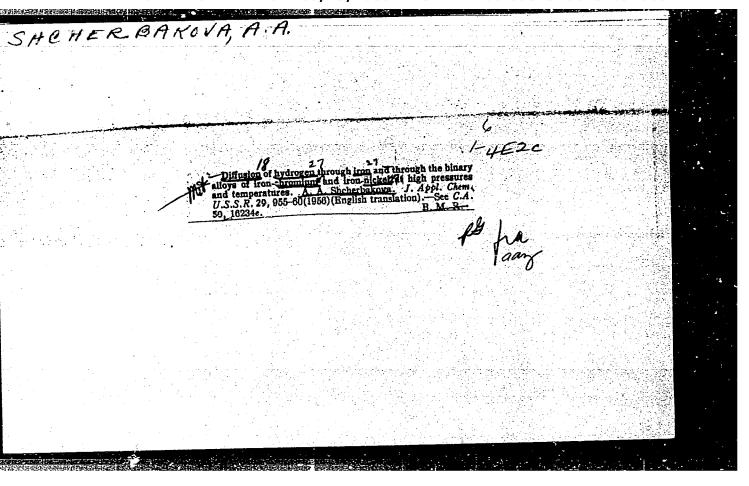
Abstract: It was established that the speed of diffusion of hydrogen through

binary alloys Fe-Cr (0.97 -- 0.41% Cr) and Fe-Ni alloys (1.29 -- 98.84% Mi) at a pressure of 100 atmos and a temperature from 200 to 600° is described by the equation  $v = K \exp(-E/RT)$ . The speed of diffusion of hydrogen through the binary Fe-Cr alloys at a pressure of 100 atmos and a temperature from 200 to 600° diminishes considerably when the chromium content in the iron is increased to 1%. The speed of diffusion of hydrogen through the Fe-Ni alloys under the same experimental conditions increases noticeably with addition of Ni from 1.29 to 10%, but further increase of Ni in the alloy from 10 to 20% causes a considerable

reduction in the speed of diffusion of hydrogen.

: 1/1 Card

Title



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USSR/Physical Chemistry - Crystals, B-5

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 207

Author: Shcherbakova, A. A.

Institution: None

1. 16 1/8 4 4

Title: Diffusion of Hydrogen in Iron and Binary Fe-Cr and Fe-Ni Alloys at High Temperatures and Pressures

Original

Periodical: Zh. prikl. khimii, 1956, Vol 29, No 6, 879-884

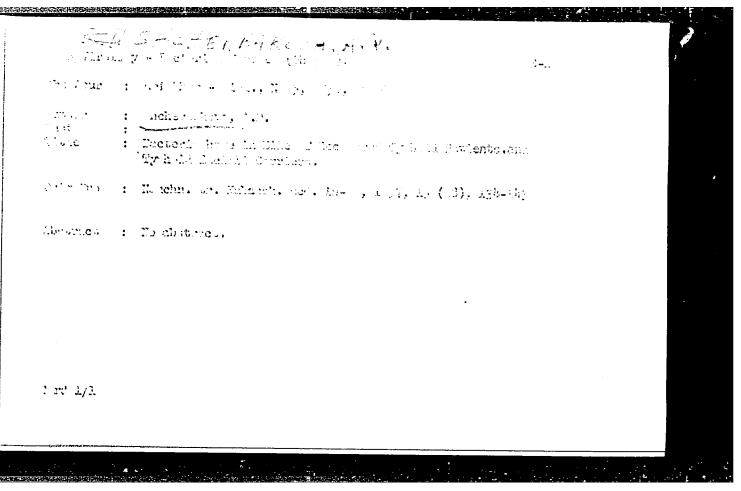
Abstract: It has been found that the rate of diffusion of H2 through strips of Fe-Cr (0.7-41% Cr) and Fe-Ni (1.29-98.84% Ni) alloys at a pressure

of 100 atm and temperatures of 200-600° is given by the equation v \* K  $\exp(-E/RT)$ . For Fe-Cr alloys E is independent of the composition and has a value of S to 9,000 cal per gram-atom H<sub>2</sub>. For Fe-Ni alloys containing 1.29-20.05% Ni, E has the same value, i.e., it practically does not differ from the value of E for Fe-armco (9,300 cal); for alloys containing 73.86-90.76% Ni E  $\approx$  12,000. For Fe-Cr alloys v is smallest at 19% Cr content. For Fe-Ni alloys v has a maximum at  $\sim$ 6%

Ni and a minimum at ~74% Ni content.

Card 1/1

"Microbiological Investigation of Typhoid Cultures, Oct 53 preserved for a long time in standard cultures kept in storage. It proved possible to maintain 266T31 had a high content of VI-antigen. This antigen was sub-types. The phage type may change not only on nutrient media, but also in the organism. Strains of typhoid bacilli isolated in 1947-9 a high Vi-antigen content by selection and to bring back to the V-state cultures which had predominant phage types were D, F, and their For that reason one must be careful in phage acquired characteristics of W-strains. The B. P. Pervushin, A. D. Shcherbakova, N. N. Ushmoreva, Z. S. Sserina; Kuban' Med Inst; Krasnodar Inst of Epidemiol and Microbiol typing for epidemiological purposes. Zhur Mikro Epid i Immun, No 10, p 87 USSR/Medicine - Typhoid



DUBOVYY, M.I., kand.med.nauk; LITVIN, I.I., dotsent; SHTABSKIY, B.M., assistent; SHCHERBAKOVA, A.K., kand.med.nauk

Chemical dermatitis in coal miners. Vest.derm. 1 ven. 34 (MIRA 13:12) no.2:43-46 F '60.

1. Iz kafedry kozhnykh i venerichsakikh bolezney (zav. - prof. A.A. Shteyn) i kofedry obshchey gigiyeny (zav. - prof. V.Z. Hartynyuk) L'vovskogo gosuderstvennogo meditsinskogo instituta (direktor - prof.L.N.Kuzmenko).

(OCCUPATIONAL DERMATITIS)

(MINING)

KEZLOVA, V.M.; SHCHERBAKOVA, A.K.

Helminths of carp and predatory fishes in the Astrakhan Preserve.

Uch.2ap.GOPI no.27:1111-120 160. (MIRA 15:3)

(Astrakhan Preserve-Parasites—Fishes)

(Worms, Intestinal and parasitic)

EABAYEV, B.; SHCHERBAKOVA, A.I.

Control of bothriocephaliasis in Ctenopharyngodon idella. Izv.

AN Turk. SSR. Ser. biol. nauk no.4x86-87 '63. (MIRA 16:9)

1. Institut zoologii i parazitologii AN Turkmenskoy SSR i
Turkmenskoye respublikanskoye veterinarnoye upravleniye.

(Turkmenistan—Parasites—Ctenopharyngodon)

(Turkmenistan—Tapeworms)

DUBOVYY, M.I., assistent; SHCHERBAKOVA, A.K., assistent; POVKH, B.V.; GZHEGOTSKIY, M.I.

Therapeutic and preventive measures in reducing suppurative diseases among miners of the Lvov coal basin. Vest.derm.i ven. no.9:51-53 '61. (MIRA 15:5)

1. Iz kafedry kozhnyth i venericheskikh bolezney (zav. - prof. A.A. Shteyn) L'vovskogo meditsinskogo instituta (dir. - prof. L.N. Kuzmenko). 2. Zam. glavnogo vracha mediko-sanitarnoy chasti (for Povkh). 3. Glavnyy vrach sanitarno-epidemiologicheskoy stantsii Chervonograda (for Gzhegotskiy).

(LVOV-VOLYN' BASIN-COAL MINERS-DISEASES AND HYGIENE)

Plagmatic errors in digatheric of the pasters of digatheric mode entropy 197-199 (61).

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BORMOTOV, V.Ye.; ZAGREKOVA, V.N.; SHCHERBAKOVA, A.M.

Development of tetraploid forms of sugar beets. Report No.1: Preparation and selection of Co polyploids during the first year of vegetation. Biul. Inst. biol. AN BSSR no.6:233-238
161. (SYMAN TOTAL TOTAL AND STREET (MIRA 15:3)

(SUGAR BEET BREEDING)

Patricy, A.I.; Tarasevich, Ye.I.; Andreina, V.E.; Sheherbakeva, A.M.

Significance of the introduction time of maternal pollen into the pollinating mixture for the results of remote hybridization. Bot.; issl. Bel. old. VBO (NEEL 13:9)

SHAFRAHOVSKIY, A.K., kand.tekhn.nauk; SHCHERBAKOVA, A.P., inzh.

Technical and economic effectiveness of track tamping and alignment machinery, taking performance quality into consideration. Vest. TSHII MPS 19 no.8:43-46 '60. (MIRA 13:12)

(Railroads—Equipment and supplies)

ZOLOTANEVA, A.I.; FORENKO, Z.F.; SHCHERBAKOVA, A.F.

Composition of water soluble salts in rocks of the Dolina oil field and its effect on the parameters of clay muds. Trudy WkrNIGRI no.7:126-130 63.

(MIRA 1981)

<u>L 3/077 - 5 LMT(m)/T/cdF(w)/cdF(v), cTI 185(s)</u> 3D		
500RCE CODE: UR/0148/56/000/001/0149/0150		
AUNIOR: Ganchar, V. M.; Voskoboynikova, M. A.; Shcherbakova, A. P.		
ORG: Chelyabinsk Polytechnic Institute (Chelyabinskiy politekhmicheskiy institut)		
TITLE: The effect of intermediate structures on the properties of structural steels		
SOURCE: IVUZ. Chernaya metallurgiya, no. 1, 1966, 149-153		
TOPIC TAGE: alloy steel, bainite, metal heat treatment, metallographic examination, impact strength	•	
ABSTRACT: The kinetics of austenite decomposition in two medium alloyed Cr-Ni-Mo steel and on the mechanical properties of their intermediate transformation products at room.	S	
temperature and below was studied. Critical points were determined on a differential optical dilatometer for temperature changes of 190 deg/hr. Isothermal transformation		
diagrams were given and the austenitic stability was measured (% austenite) for different temperature regions, the maximum austenitic stability being obtained in the nigo er alloyed steel (8) at 450-550°C. Microstructures for isothermal transformation at	:	
different temperatures and for quenched and tempered steel were compared: at the low- er part of the intermediate region the structure was needle-like whereus at the high-		
er part the needles were thicker. Tensile and impact properties of the above structures were tabulated. At room temperature, the lowest properties were obtained for		
UDC: 669.14.018.27:620.17		
Curu ar a		

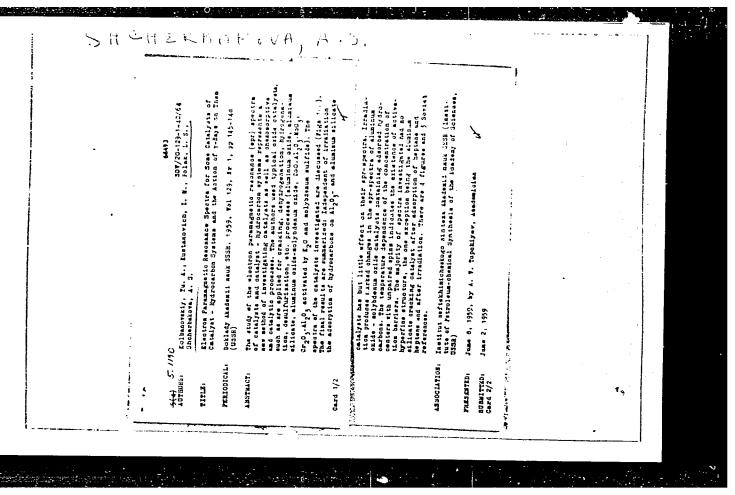
L 32977-66

ACC NR: AP6017523

steel (A) transformed isothermally at 450°C. The best properties (high strength and plasticity) were obtained for the ordinary quench and temper treatment. The % of austenite transformed dropped from 100 at 350°C to 90 at 450°C for steel (A) and from 95 at 300°C to 15 at 425°C for steel (B). The effects of isothermal transformation in the intermediate region on the impact strength and on the fracture characteristics at different testing temperatures were determined. For steel (A) with 100% austenite transformed, the fracture appearance at room temperature was brittle and at lower temperatures the impact strength decreased. Steel (B) exhibited better impact strengths at the lower temperatures, especially for the quenched and tempered structure. In all cases, the intermediate isothermal structures lowered the physical properties, all the more sharply for the lower temperatures. The negative influence of the intermediate structures depended on the alloy content, the amount and characteristics of the intermediate structure and the test temperature. Orig. art. has: 4 figures, 2 tables.

SUB CODE: 11/ SUBM DATE: 19Jan63/ ORIG REF: 004

Card 2/2/19



33**5**90

5/204/61/001/005/008/008 E075/E484

5.4600 // /2/0 AUTHORS:

Polak, L.S., Chernyak, N.Ya., Shakhray, V.A.,

Shcherbakova, A.S.

 $\gamma$ -radiolysis of n-hexane in the presence of small

admixtures of benzene

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The authors investigated the composition of the main products of radiolysis of hexane in the liquid phase at 20°C in the presence of small additions of benzene. Great care was taken to purify the hexane before radiolysis. It was washed with oleum, alkaline solution and water, dried with CaCl2, passed through silica gel and distilled. Benzene used was of cryoscopic grade and thiophane free. Solutions of benzene in hexane (10-4 to Before sealing, 10-1 mole/litre) were placed in special ampules. air was removed from the solutions by repeated freezing to -196°C and melting in high vacuum (5 x 10-3 mm Hg). After sealing, all ampules were irradiated simultaneously with \gamma-rays for 80 h using Cobo Radiation dosage was 4 x 1015 eV/sec cm<sup>3</sup>. It is shown that yields of products resulting from the rupture of C-H bonds, Card 1/3